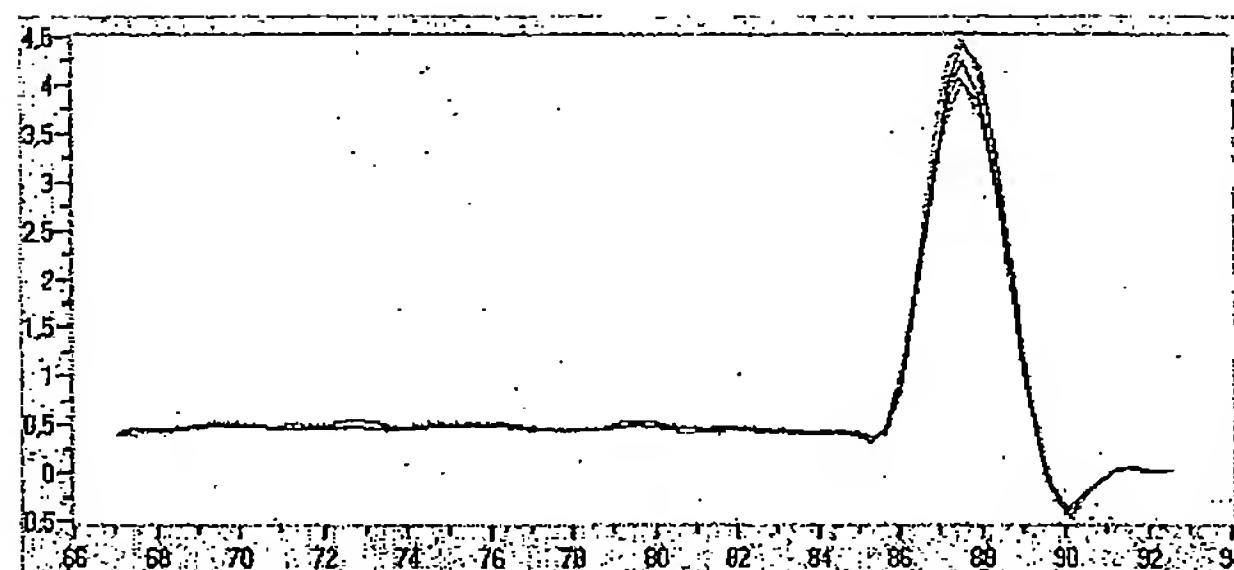
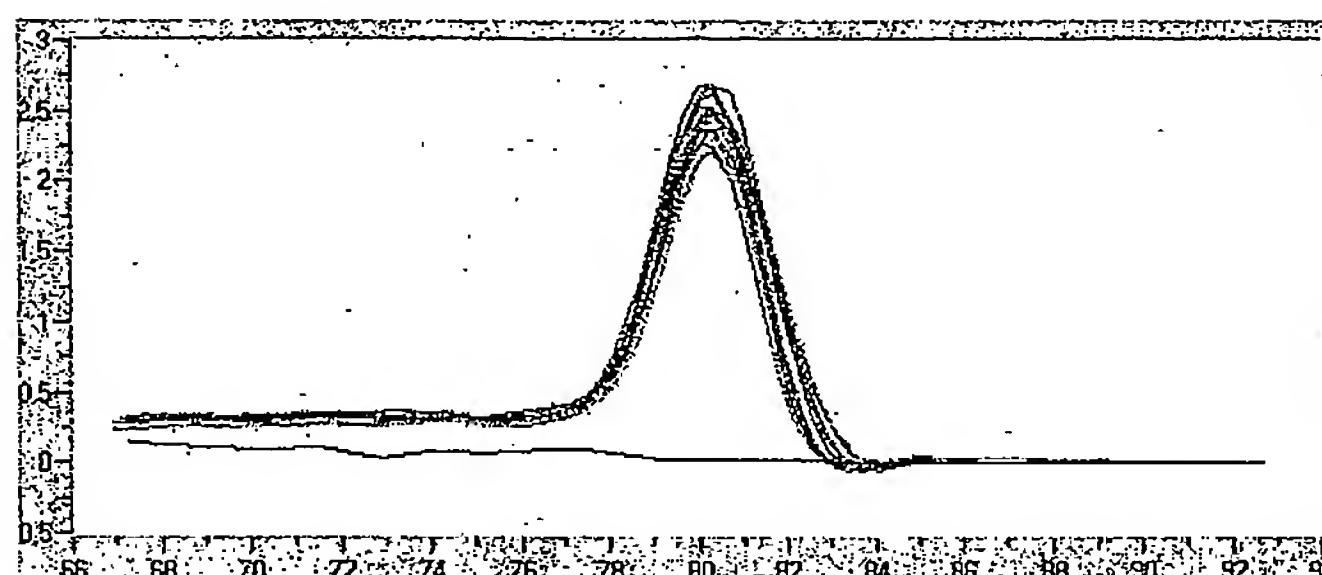


1/10

FIGURE 1a**FIGURE 1b**

2/10

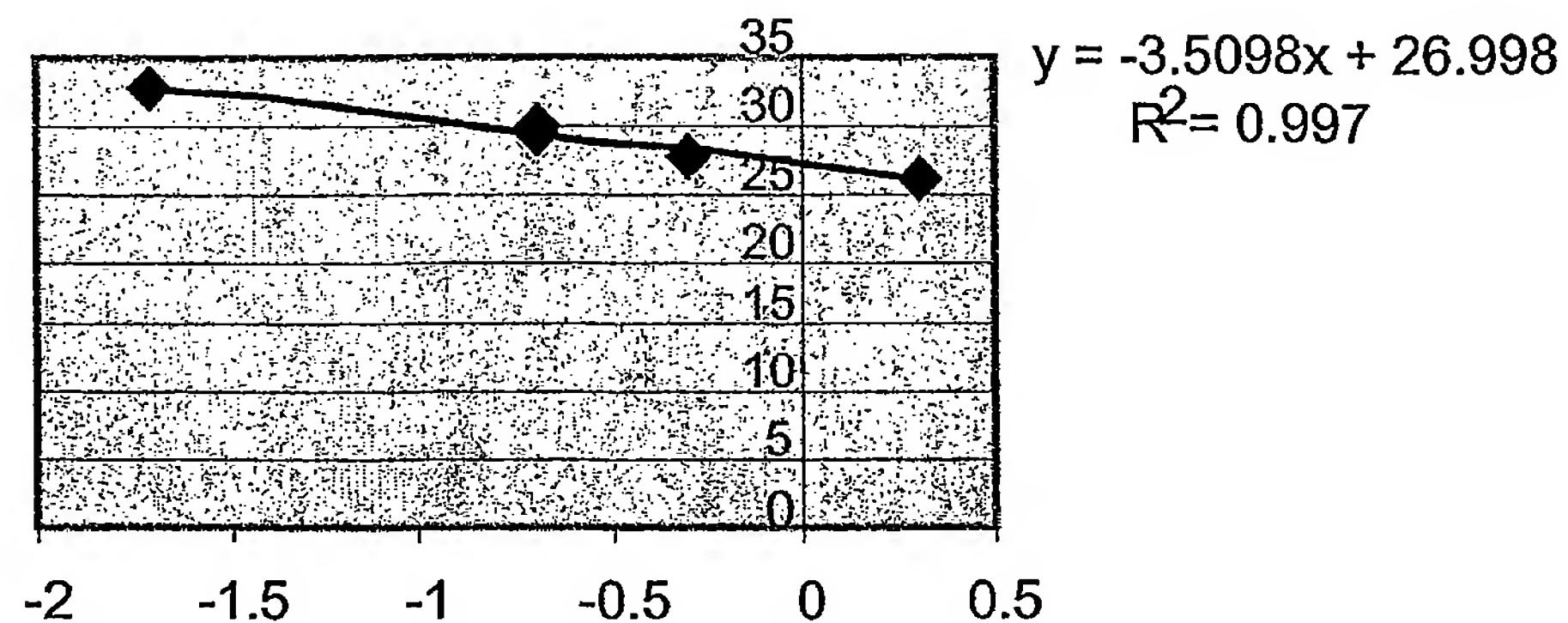
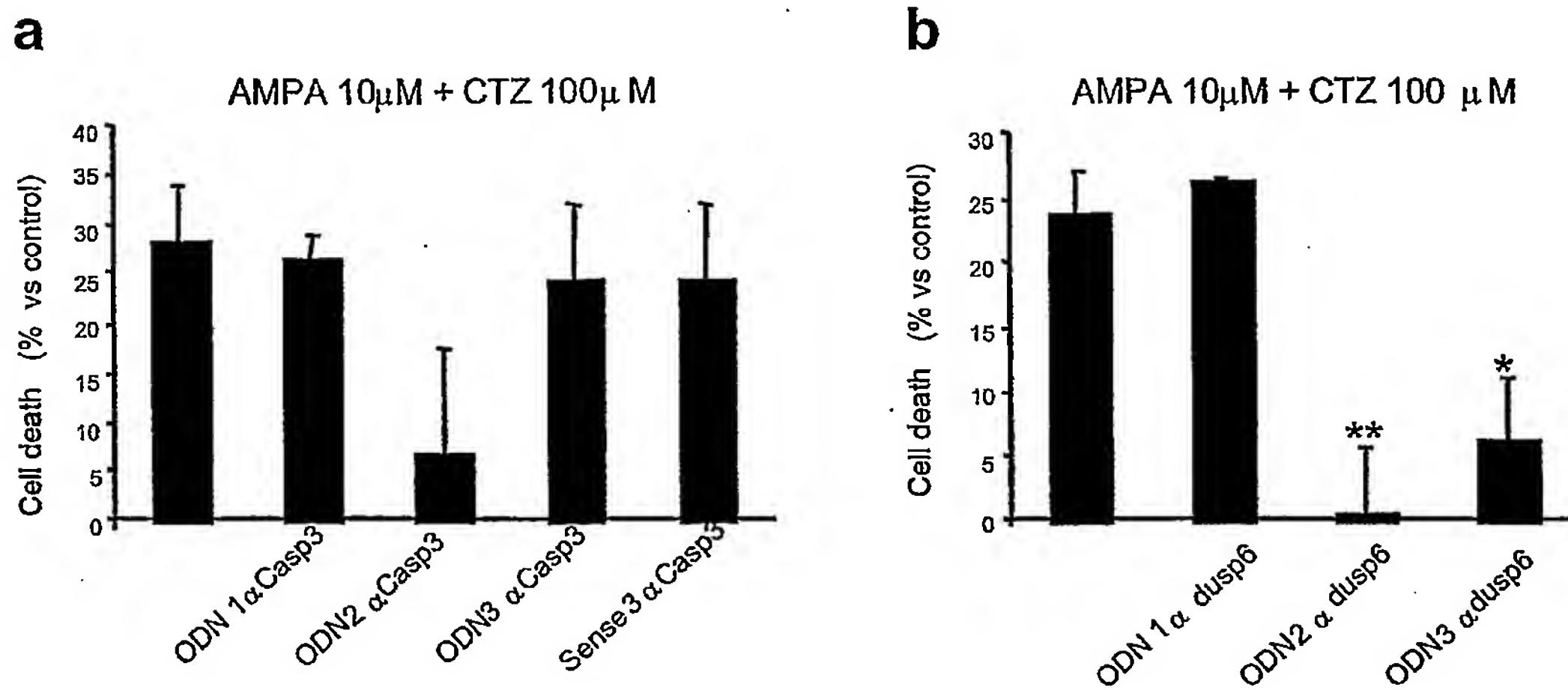
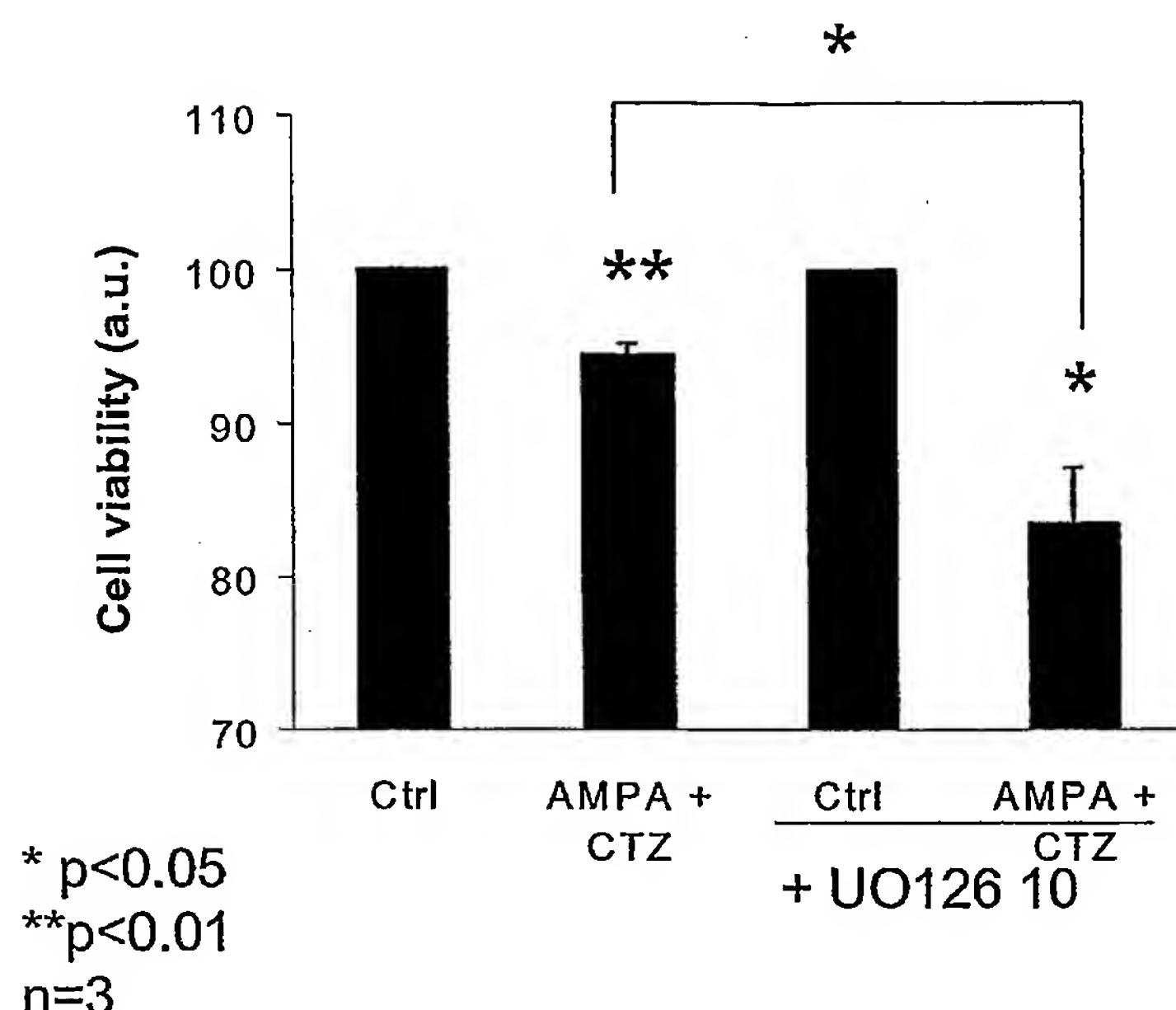
FIGURE 2

FIGURE 3

4/10

FIGURE 4

5/10

FIGURE 5

	690	700	710	720	730	740
human	CGGCGAGTCGTGCTCGGGCTGCTGCTCAAGAAGCTCAAGGACGAGGGCTGCCGGCGTT					
	:: :::::: : :::::::::::::::::::: ::::: :::::::::::::::::::: :					
rat	TGGAGAGTCGGTCCTCGGGCTGCTGCTCAAGAAAATCAAAGACGAGGGCTGCCGGCGTT					
	690	700	710	720	730	740
	750	760	770	780	790	800
human	CTACCTGGAAAGGTGGCTTCAGTAAGTTCCAAGGCCGAGTTCTCCCTGCATTGCGAGACCAA					
	::: :::::::::::::::::::: ::::: :::::::::: ::::::: :::::::::: :					
rat	CTACCTTGAAGGTGGCTTCAGTAAGTTCCAGGCCGAGTTGCCACTGCGAGACCAA					
	750	760	770	780	790	800
	810	820	830	840	850	860
human	TCTAGACGGCTCGTAGCAGCAGCTCGCCGCCGTTGCCAGTGCTGGGCTCGGGGCCT					
	::: :::::::::::::::::::: ::::: :::::::::: ::::::: :::::::::: :					
rat	TCTAGACGGCTCGTAGCAGCAGCTCCCCGCCCTGCCAGTGCTGGACTCGGGGCCT					
	810	820	830	840	850	860
	870	880	890	900	910	920
human	GCGGATCAGCTCTGACTCTTCCCTCGGACATCGAGTCTGACCTTGACCGAGACCCAATAG					
	: :::::::::::::::::::: ::::: :::::::::::::::::::: :::::::::: :					
rat	GAGGATCAGCTCCGACTCTTCCCTCGGACATTGAGTCTGACCTTGACCGAGACCCAATAG					
	870	880	890	900	910	920
	930	940	950	960	970	980
human	TGCAACAGACTCGGATGGTAGTCCGCTGTCCAACAGCCAGCCTTCCCTCCAGTGGAGAT					
	::: ::::: ::::: :: :::::::::::::::::::: :::::::::: :::::::					
rat	TGCAACGGACTCCGATGGCAGCCCGCTGTCCAACAGCCAGCCTTCCCTCCGGTGGAGAT					
	930	940	950	960	970	980
	990	1000	1010	1020	1030	1040
human	CTTGCCTTCCTCTACTTGGCTGTGCCAAAGACTCCACCAACTTGGACGTGTTGGAGGA					
	::: ::::::: ::: :::::::::::::::::::: ::::: ::::::::::::::: ::					
rat	TTTGCCTTCCTTACCTGGCTGTGCCAAGGACTCTACTAACATTGGACGTGTTGGAAGA					
	990	1000	1010	1020	1030	1040
	1050	1060	1070	1080	1090	1100
human	ATTCGGCATCAAGTACATCTTGAACGTCACCCCCAATTGCCAATCTCTTGAGAACGC					
	:: :::::::::::::::::::: ::::: ::::: ::::::: ::::::: ::					
rat	GTGGCATCAAGTACATCTTGAACGTCACCCCCAATTGCCAATCTGTTTGAGAACGC					
	1050	1060	1070	1080	1090	1100
	1110	1120	1130	1140	1150	1160
human	AGGAGAGTTAAATACAAGCAAATCCCCATCTGGATCACTGGAGCCAAACCTGTCCA					
	::: ::::: ::: :::::::::::::::::::: ::: ::::::: :::::::::::::::					
rat	AGGGGAGTTCAAGTACAAGCAAATCCTATCTGATCACTGGAGCCAAACCTGTCCA					
	1110	1120	1130	1140	1150	1160
	1170	1180	1190	1200	1210	1220
human	GTTCCTGAGGCCATTCTTCATAGATGAAGCCGGGCAAGAACTGTGGTGTCTT					
	::: :::::::::::::::::::: ::::: :::::::::::::::::::: ::::::: ::					
rat	GTTCCTGAGGCCATTCTTCATAGATGAAGCCGAGGCAAAACTGTGGTGTCTT					
	1170	1180	1190	1200	1210	1220

7/10

	1230	1240	1250	1260	1270	1280
human	GGTACATTGCTTGGCTGGCATTAGCCGCTCAGTCAGTCAGTGACTGTGGCTTACCTTATGCA ::: :::::::::::::: :::::: :::::: :::::: :::::: :::::: :::::: :::::: ::::::					
rat	GGTGCATTGCTTGGCGGGCATCAGCCGCTCCGTACGGTACAGTGGCTTACCTTATGCA 1230 1240 1250 1260 1270 1280					
	1290	1300	1310	1320	1330	1340
human	GAAGCTCAAATCTGTCGATGAACGATGCCTATGACATTGTAAAATGAAAAAATCCAACAT ::::::: :::: ::::::: ::::::: ::::::: ::::::: ::::::: :: :: :::::::					
rat	GAAGCTCAAACCTGTCCATGAACGATGCTTATGACATTGTAAAATGAAGAAGTCCAACAT 1290 1300 1310 1320 1330 1340					
	1350	1360	1370	1380	1390	1400
human	ATCCCCTAACTCAACTTCATGGGTCAAGCTGCTGGACTTCGAGAGGACGCTGGACTCAG :: : ::::::: ::::::: ::::::: ::::::: ::::::: :: :: :: :: :: :: :: :: ::					
rat	CTCTCCCAAACCTCAACTTCATGGGCCAGCTGCTTGACTTGAAAGGACCCTGGGACTCAG 1350 1360 1370 1380 1390 1400					
	1410	1420	1430	1440	1450	1460
human	CAGCCCAGTGACAACAGGGTTCCAGCACAGCAGCTGTATTTACCAACCCCTCCAACCA ::::::: ::::::: : :: :: ::::::: :: :: :: :: :: :: :: :: :: :: :: ::					
rat	CAGCCCCGTGACAATCGTGTCCCCGCACAGCAGCTCTACCTCACCGCGCCCTCCAACCA 1410 1420 1430 1440 1450 1460					
	1470	1480	1490	1500	1510	1520
human	GAATGTATAACCAGGTGGACTCTCTGCAATCTACGTGAAAGACCCCACACCCCTCCTGCT ::::::: ::::::: ::::::: ::::::: ::::::: :: :: :: :: :: :: :: :: ::					
rat	GAATGTCTACCAAGTGGACTCCCTGCAATCTACGTGAAAGGCACC-CACCTTCCTAGCC 1470 1480 1490 1500 1510 1520					
	1530	1540	1550	1560	1570	
human	GGAATGTGTCTGGCCCTTCAGCAGTTCTCTT-GGCAGCATCAGCTGGGCTGCTTCTT :: : ::::::: : : :: ::::::: ::::::: :: :: :: :: :: :: :: :: ::					
rat	GGGA-GTGTCT--CATTCCCTCAGTTCTCTGGCAGCATCGACCAGGCTGCTTCTT 1530 1540 1550 1560 1570 1580					
	1580	1590	1600	1610	1620	1630
human	GTGTGTGGCCCCAGGTGTC-AAAATGACACCAGCTGTCTGTACTAGACAAGGTTACCAAG ::::::: ::::::: :: :: :: :: :: :: :: :: :: :: :: :: :: :: ::					
rat	GTGTGTGGCCCCAGGTGTAAAAATGTCACCAGCTGTCTGTATTAGACAAGGTTGCCAAG 1590 1600 1610 1620 1630 1640					
	1640	1650	1660	1670	1680	1690
human	TGCGGAATTGGTTAATACTAACAGAGAGATTGCTCCATT-----TCTTTGGAATAACA ::: ::::::: :: : :: ::::::: ::::::: :: :: :: :: :: :: ::					
rat	TGCAAAATTGGTTATTACGGAGGGAGAGATTGCTCCATTGTTTTGGAAAGGACA 1650 1660 1670 1680 1690 1700					
	1700	1710	1720	1730	1740	1750
human	GGACATGCTGTAGATACAGGCAGTAGGTTGC-TCTGTACCCATGTGTACAGCCTACC :: ::::::: ::::: ::::::: ::::::: :: :: :: :: :: :: :: ::					
rat	GGGTATGCTGTAGATCCAGGCAATAGGTTGCTTTGTACCC-----CAGCCTACC 1710 1720 1730 1740 1750					

	1760	1770	1780	1790	1800
human	CATGCAGGGACTGGGATTCGAGGACTTCCAG	---	GCGCATAGGGTAGAACCAAATGATAG		
	:: :::::::::::	::	: ::::	: :	: :
rat	CAAGCAGGGACTGGACCTC	----	CATCCAGATAGAGGGTAGGACA	-AAGGAGCCG	--GG
	1760	1770	1780	1790	1800
	1810	1820	1830	1840	1850
human	GGTAGGAGCATGTGTTCTTAGGGCCTTGTAAGGCTGTTCTTCCTTGCATCTGGA	ACTGA			
	:: :::::::::::	:::::::	:: :::::::	:: :::::::	:: :
rat	GATAGGAGCATGTGTTCTTAGGGCCACATATGGCTGTTCTGTCATCTGGA	ACCAA			
	1820	1830	1840	1850	1860
	1870	1880	1890	1900	1910
human	CTATATAATTGTCTTCAAGTGAAGACTAATTCAATTTCATATAGAGGGAGCAAAGAGA				
	:::::				
rat	CTATATTGTCTTCAGTGAAGACTGATTCAACTTGCATAGTGGAGCCAAAGAGATT	TT			
	1880	1890	1900	1910	1920
	1930				

9/10

FIGURE 6

98.425% identity (98.425% ungapped) in 381 aa overlap (1-381:1-381)						
	10	20	30	40	50	60
human	MIDTLRPVPFASEMAISKTVawlneQleLgnerlllMDCRPQELYESSHIESAINVAIPG	:::::::::::	:::::::::::	:::::::::::	:::::::::::	:::::::::::
rat	MIDTLRPVPFASEMAISKTVawlneQleLgneQlllMDCRPQELYESSHIESAINVAIPG	10	20	30	40	50
	70	80	90	100	110	120
human	IMLRLQKGNLPVRALFTRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGESLLGLLK	:::::::::::	:::::::::::	:::::::::::	:::::::::::	:::::::::::
rat	IMLRLQKGNLPVRALFTRCEDRDRFTRRCGTDTVVLYDENSSDWNENTGGESVLGLLK	70	80	90	100	110
	130	140	150	160	170	180
human	KLKDEGCRAFYLEGGFSKFQAEFSLHCETNLGCSSSSPPLPVVLGLGGLRISSDSSDI	:::::::::::	:::::::::::	:::::::::::	:::::::::::	:::::::::::
rat	KLKDEGCRAFYLEGGFSKFQAEFALHCETNLGCSSSSPPLPVVLGLGGLRISSDSSDI	130	140	150	160	170
	190	200	210	220	230	240
human	ESDLDRDPNSATDSDGSPLSNSQPSFPVEILPFLYLGCAKDSTNLDVLEFGIKYILNVT	:::::::::::	:::::::::::	:::::::::::	:::::::::::	:::::::::::
rat	ESDLDRDPNSATDSDGSPLSNSQPSFPVEILPFLYLGCAKDSTNLDVLEFGIKYILNVT	190	200	210	220	230
	250	260	270	280	290	300
human	PNLPNLFENAGEFKYKQIPISDHWSQNLSQFFPEAISFIDEARGKNCGVLVHCLAGISRS	:::::::::::	:::::::::::	:::::::::::	:::::::::::	:::::::::::
rat	PNLPNLFENAGEFKYKQIPISDHWSQNLSQFFPEAISFIDEARGKNCGVLVHCLAGISRS	250	260	270	280	290
	310	320	330	340	350	360
human	VTVTVAYLMQKLNLSMNDAYDIVKMKKSNI SPNFNFMGQLLD FERTLGLSSPCDNRVPAQ	:::::::::::	:::::::::::	:::::::::::	:::::::::::	:::::::::::
rat	VTVTVAYLMQKLNLSMNDAYDIVKMKKSNI SPNFNFMGQLLD FERTLGLSSPCDNRVPAQ	310	320	330	340	350
	370	380				
human	QLYFTTPSNQNRYQVDSLQST	:::::::::::				
rat	QLYFTAPSQNRYQVDSLQST	370	380			

10/10

FIGURE 7